Abstract Details

Title: Development Of A Path Layout Optimization Model For Agv In Flexible Manufacturing System Using Particle Swarm Optimization (Pso) Approach

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Abstract: Industry Path Layout Arrangement Of A Flexible Manufacturing System (Fms) Has An Important Role In Achieving High Productivity And Quality Product At A Competitive Cost And Time. Layout Deals With The Selection Of Machines, Path Of Material Movement And Material Handling Devices Involved In Manufacturing A Product. In This Paper Path Layout Optimization Model Has Been Proposed For Fms Environment. The Key Purpose Of This Layout Problem Is To Get The Sequence Of Machines In The Order By Using Particle Swarm Optimization (Pso) Approach For Random Generation, And Automated Guided Vehicle (Agv) Path Minimization. This Idea Has Been Developed To Select The Best Fms Layout And Bi Directional Movement Of An Agv Just About The Loop Type Layout. The Spaces Among The Machines Have Also Been Considered In This Loop Layout Design For A Fms Environment To Achieve The Optimized And Better Results.

Keywords: Automated Guided Vehicle, Fms, Java Programming, Pso And Loop Layout